

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Agenda for 7<sup>th</sup> Meeting of Board of Studies for PG Program**

**M.Tech. (Electrical Power Systems)**

on

**23<sup>rd</sup> April, 2016**

1. Action taken report on minutes/resolutions of 6<sup>th</sup> BOS meeting.
2. Academic Calendar for M. Tech Program in Electrical Power Systems.
3. Vision and Mission of the Department, Program Educational Objectives, Program Outcomes and Program Specific Outcomes of M.Tech. Electrical Power Systems.
4. Course structure, Course Objectives & Course Outcomes of M.Tech.(EPS)
5. M.Tech. Electrical Power Systems course Syllabi and model question papers
6. Panel of paper setters and sample question bank
7. Extension of Academic Period to a M. Tech. Student under SVEC10 regulations.
8. Teaching, Learning and Evaluation Practices.
9. Research activities.
10. Faculty and Staff development activities.
11. Student development activities.
12. Student support systems.
13. Extension activities.
14. Any other item.

  
**Chairman, BOS-EEE**

# SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

Sree Sainath Nagar, A. Rangampet-517 102

## Department of Electrical & Electronics Engineering

Meeting of Board of Studies  
Electrical and Electronics Engineering

on  
27<sup>th</sup> April, 2016

**Minutes:**

**Members Present:**

S. No.	Name	Role
1	<b>Dr. T.Devaraju</b> Professor, Head, Dept. of EEE, SVEC	Chairman
2	<b>Dr. M. Vijaya Kumar</b> Professor, Dept. of EEE, JNTUA, Anantapur	JNTUA Nominee (Academics)
3	<b>Dr. D.V.S.S. Siva Sarma</b> Professor, Dept. of EEE, NIT, Warangal	External Member (Academics)
4	<b>Dr. M. Damodara Reddy</b> Professor, Dept. of EEE, SVUCE, Tirupati	External Member (Academics)
5	<b>Mr. M. Krishnamurthy Naidu</b> General Manger, Amara Raja Power Systems Division, Karakambadi, Tirupati	External Member (Industry)
6	<b>Mr. K. Ramanujulu</b> R&D Engineer, QUADIO Devices, Pune	Alumni (Industry)
7	<b>Dr. T. Nageswara Prasad</b> Professor, Head, Dept. of EEE, SVEC	Internal Member
8	<b>Dr. P. Umapathi Reddy</b> Professor, Dept. of EEE, SVEC	Internal Member
9	<b>Dr. Nagaraju Mandadi</b> Professor, Dept. of EEE, SVEC	Internal Member
10	<b>Dr. M.S. Sujatha</b> Professor, Dept. of EEE, SVEC	Internal Member
11	<b>Dr. N.M.G. Kumar</b> Professor, Dept. of EEE, SVEC	Internal Member
12	<b>Dr. S. Farook</b> Associate Professor, Dept. of EEE, SVEC	Internal Member
13	<b>Mr. M. Manohara</b> Associate Professor, Dept. of EEE, SVEC	Internal Member
14	<b>Mr. S. Hema Chandra</b> Professor, Dept. of EEE, SVEC	Internal Member

**Minutes:**

**Action Taken Report (ATR) on resolutions of BOS meeting held on 19th April, 2015.**

The Chairman Dr. T. Devaraju Presented the Action taken report on the resolutions of BOS meeting held on 19<sup>th</sup> April 2015.

**Report on implementation of autonomy for M.Tech. Programme**

SVEC 14 Regulations were implemented and one batch of Students completed.

### 3. Approval of Academic calendar for M.Tech. course(EPS)

Academic calendar for M.Tech Programme was presented and approved.

### 4. M.Tech.(EPS) Course structure & Vision & Mission of the Department

Chairman appraised the members, the Vision and Mission of the Department. Course structure, PEO, PO & PSO of the M.Tech (EPS) programme for approval.

The members have approved the PEO, PO, PSO and of M.Tech (EPS). Course structure, of the M.Tech. (EPS)

### 5. M.Tech.(EPS) Syllabi and Model question papers for Course

The Chairman has presented detailed syllabi for M.Tech. (EPS) which was presented latest for SVEC 16 regulations. After deliberate discussions, the members have suggested some changes to course contents in the subjects/courses link Power electronic converters, HVDC, FACTS, and intelligent control.

*The suggestions are forwarded to the module coordinators for incorporation in the print version.*

### 6. Panel of question paper setters and question Bank.

The BOS is authorized to prepare the panel of question paper setters and submit as and when required. They perused the question bank of each course and suggested that care should be taken to avoid over lapping of questions on the same topic in the end examination question paper.

### 7. Extension of academic period to a M.Tech student under SVEC10 regulations

While noting the issue on non-completion of project work by Undeti Shanthivardhan bearing roll number 11121D0716, a student of M.Tech. Electrical Power Systems, the members resolved to extend the period for completion of the degree by 2016-17 as special case on medical grounds, subject to the approval of the academic council of the college.

### 8. Department activities in the Department.

Perused the information provided under the following heads.

- |  |                                     |
|--|-------------------------------------|
| (i) Teaching, Learning and Evaluation practices. | (ii) Research activities.           |
| (iii) Faculty development activities             | (iv) Student development activities |
| (v) Student support systems                      | (vi) Extension activities.          |

*Perused and appreciated*

### 9. Any other item

- Incorporate Voltage source inverters in FACTS, even in through redundant for continuity.
- Encourage the students to do good research- oriented projects and the papers in the peer reviewed journals.
- Involve M.Tech. students who were admitted through GATE for conduction of tutorial classes and assist in the laboratories.
- Arrange Expert lectures on the advanced topics like  
Restructuring of power systems,  
Distributed Generation  
Smart Grid, FACT Controller and Integration of Renewable energy sources.

The external Members of the BOS, appreciated the healthy and emulatable practices for the holistic development of the department and in achieving NBA accredited for two years under TIER-I M.Tech. (EPS) Programme. The members appreciated the pro-active approach of the college management and efforts taken by department.

The meeting concluded with thanks to the external members for valuable suggestions.

S. No.	Name	Role	Signatures
1	<b>Dr. T.Devaraju</b> Professor, Head, Dept. of EEE, SVEC	Chairman	<i>Dwar</i>
2	<b>Dr. M. Vijaya Kumar</b> Professor, Dept. of EEE, JNTUA, Anantapur	JNTUA Nominee (Academics)	-
3	<b>Dr. D.V.S.S. Siva Sarma</b> Professor, Dept. of EEE, NIT, Warangal	External Member (Academics)	<i>D.V.S.S. Siva Sarma</i>
4	<b>Dr. M. Damodara Reddy</b> Professor, Dept. of EEE, SVUCE, Tirupati	External Member (Academics)	<i>M. Reddy</i>
5	<b>Mr. M. Krishnamurthy Naidu</b> General Manger, Amara Raja Power Systems Division, Karakambadi, Tirupati	External Member (Industry)	-
6	<b>Mr. K. Ramanujulu</b> R&D Engineer, QUADIO Devices, Pune	Alumni (Industry)	<i>K. Ramanujulu</i>
7	<b>Dr. T. Nageswara Prasad</b> Professor, Head, Dept. of EEE, SVEC	Internal Member	<i>T. N. Prasad</i>
8	<b>Dr. P. Umapathi Reddy</b> Professor, Dept. of EEE, SVEC	Internal Member	<i>P. Umapathi Reddy</i>
9	<b>Dr. Nagaraju Mandadi</b> Professor, Dept. of EEE, SVEC	Internal Member	<i>N. Mandadi</i>
10	<b>Dr. M.S. Sujatha</b> Professor, Dept. of EEE, SVEC	Internal Member	<i>M.S. Sujatha</i>
11	<b>Dr. N.M.G. Kumar</b> Professor, Dept. of EEE, SVEC	Internal Member	<i>N.M.G. Kumar</i>
12	<b>Dr. S. Farook</b> Associate Professor, Dept. of EEE, SVEC	Internal Member	<i>S. Farook</i>
13	<b>Mr. M. Manohara</b> Associate Professor, Dept. of EEE, SVEC	Internal Member	<i>M. Manohara</i>
14	<b>Mr. S. Hema Chandra</b> Professor, Dept. of EEE, SVEC	Internal Member	<i>S. Hema Chandra</i>

**Approved Course Structure**

**Program: M.Tech. – Electrical Power Systems**

**Regulations: SVEC – 16**

**I-Semester**

S. No.	Course Code	Course Title	Contact Periods per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P	Total		Internal Marks	External Marks	Total Marks
1.	16MT10701	Advanced Control Systems	4	-	-	4	4	40	60	100
2.	16MT10702	High Voltage Engineering	4	-	-	4	4	40	60	100
3.	16MT10703	Power Electronic Converters	4	-	-	4	4	40	60	100
4.	16MT10704	Power System Security and State Estimation	4	-	-	4	4	40	60	100
5.	16MT10705	Reactive Power Compensation and Management	4	-	-	4	4	40	60	100
6.	<b>Professional Elective-1</b>		4	-	-	4	4	40	60	100
	16MT10706	EHVAC Transmission								
	16MT10707	Microcontrollers and Applications								
	16MT10708	Power System Reliability								
	16MT10709	Solar and Wind Energy Conversion Systems								
7.	16MT10731	High Voltage Engineering Lab	-	-	4	4	2	50	50	100
8.	16MT10732	Power Systems Simulation-I lab	-	-	4	4	2	50	50	100
		<b>Total</b>	<b>24</b>	<b>-</b>	<b>8</b>	<b>32</b>	<b>28</b>	<b>340</b>	<b>460</b>	<b>800</b>
9.	16MT13808	Research Methodology (Audit course)	-	2	-	2	-	-	-	-

## Department of Electrical and Electronics Engineering

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### II-Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P	Total		Internal Marks	External Marks	Total Marks
1.	16MT20701	Flexible AC Transmission System	4	-	-	4	4	40	60	100
2.	16MT20702	Intelligent Systems	4	-	-	4	4	40	60	100
3.	16MT20703	Power System Stability and Control	4	-	-	4	4	40	60	100
4.	16MT20704	Restructured Power System	4	-	-	4	4	40	60	100
5.	16MT20705	Static and Digital Protection of Power System	4	-	-	4	4	40	60	100
6.	<b>Professional Elective-2</b>									
	16MT20706	Energy Auditing, Conservation and Management	4	-	-	4	4	40	60	100
	16MT20707	High Voltage DC Transmission								
	16MT20708	Power Quality								
	16MT20709	Smart Grid Technology								
7.	16MT20731	Power Systems and Relays Lab	-	-	4	4	2	50	50	100
8.	16MT20732	Power Systems Simulation-II lab	-	-	4	4	2	50	50	100
9.	16MT20733	Seminar	-	-	-	-	2	--	100	100
		<b>Total:</b>	<b>24</b>	<b>-</b>	<b>8</b>	<b>32</b>	<b>30</b>	<b>340</b>	<b>560</b>	<b>900</b>
10.	16MT23810	Intellectual Property Rights (Audit Course)	-	2	-	2	-	-	-	-

## Department of Electrical and Electronics Engineering

### III-Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P*	Total		Internal Marks	External Marks	Total Marks
1.	16MT3MOOC	Massive Open Online Course (MOOC)	-	-	-	-	-	-	-	-
2.	16MT30731	Project Work - Phase I	-	-	-	-	8	50	50	100
<b>Total:</b>			-	-	-	-	<b>8</b>	<b>50</b>	<b>50</b>	<b>100</b>

\*Fulltime Project Work

### IV-Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P*	Total		Internal Marks	External Marks	Total Marks
1.	16MT40731	Project Work - Phase II	-	-	-	-	20	150	150	300
<b>Total:</b>			-	-	-	-	<b>20</b>	<b>150</b>	<b>150</b>	<b>300</b>
<b>Grand Total:</b>						<b>86</b>	<b>880</b>	<b>1220</b>	<b>2100</b>	

\*Fulltime Project Work



**Chairman, BOS-EEE**

# **SREE VIDYANIKETHAN ENGINEERING COLLEGE**

**(AUTONOMOUS)**

SREE SAINATH NAGAR, A. RANGAMPET -517 102.

## **Department of Electrical and Electronics Engineering**

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### **LIST OF NEW COURSES INTRODUCED**

**Program: M.Tech.- Electrical Power Systems**

**Regulations: SVEC - 16**

16MT10702	High Voltage Engineering
16MT10706	EHVAC Transmission
16MT10731	High Voltage Engineering Lab
16MT18306	Intelligent Controllers
16MT13808	Research Methodology
16MT20732	Power Systems Simulation-II lab
16MT23810	Intellectual Property Rights



**Chairman, BOS-EEE**